

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A software-defined wireless communications device comprising:
 - a hardware platform;
 - platform software that controls an operating characteristic of the hardware platform;
 - waveform software separate from the platform software, the waveform software including authorization tags comprising limit values certified for at least the hardware platform and the platform software, said limit values specifying operating parameters of the hardware platform when providing authorization for the waveform software is executed to execute on the hardware platform.
2. (Currently amended) The communication device of claim 1, wherein the ~~hardware platform and the platform software enforce limits~~ limit values encoded in the authorization tags ~~[[to]]~~ ensure that a RF emission from the communication device is below a specified limit when the waveform software is executed on the hardware platform.
3. (Currently amended) The communication device of claim 1, wherein the authorization tags comprise limit values certified for a plurality of hardware platforms, and wherein the waveform software can be ported to another hardware platform included in the authorization tags once the waveform software has been authorized for execution on a first platform included in the authorization tags.
4. (Currently amended) The communication device of claim 1, wherein in the event of a change in the hardware platform, the platform software is reauthorized by applying the authorization tags.
5. (Currently amended) The communication device of claim 1, wherein the ~~specified limit values include is at least one of~~ a power level, a modulation characteristic ~~[[and]]~~ or a frequency range, or a combination thereof.
6. (Original) The communication device of claim 1, wherein the waveform software includes a waveform description and the platform software includes a signal processing library, and wherein the waveform software is executed if the signal processing library contains the waveform description.

7. (Original) The communication device of claim 6, wherein the waveform description is certified if the waveform description is not compatible with the signal processing library of the platform software.

8. (Original) The communication device of claim 1, wherein the platform software is executed on a processor or memory subsystem different from the waveform software.

9. (Original) The communication device of claim 1, wherein the hardware platform is selected from the group consisting of an analog wireless phone, a digital wireless phone, a cordless home phone, and a wireless data transmission device.

10. (Currently amended) Method of certifying a software-defined wireless communications device, comprising:

validating a signal processing library residing in the software-defined wireless communications device;

connecting the signal processing library at run time to an application program ~~containing~~ that includes waveform descriptions;

enforcing limits on RF emission based on device-related authorization tags encoded with ~~[[on]]~~ the waveform descriptions.

11. (Canceled)

12. (Original) The method of claim 10, further including downloading additional waveforms descriptions that are compatible with the signal processing library.

13. (Original) The method of claim 10, wherein the limits on RF emission is at least one of a power level, a modulation characteristic and a frequency range.